

CLAIMS

1. The combination comprising :
- a structure;
- a mass with predetermined inertia properties;
- 5 isolators connecting the structure and the mass in a hexapod configuration;
- the mass and isolators being selected to provide tuned mass damping in all six degrees of freedom for the structure.
- 10 2. The combination described in claim 1, wherein:
- the isolators comprise tubular damping struts with first and second spherical pivots at opposite ends of the tubular damping strut.
3. The combination comprising:
- 15 a structure;
- a mass;
- means for connecting the structure and the mass in a configuration that permits the mass and isolators to be deterministically selected to provide tuned mass damping in all six degrees of freedom for the
- 20 structure.

4. The combination described in claim 3, wherein the means compromises isolators arranged in a hexapod.

1. A system for controlling a robotic arm, comprising:
a. a base; and
b. a robotic arm mounted to the base, the robotic arm comprising:
i. a plurality of joints; and
ii. a plurality of actuators; and
c. a control system configured to control the robotic arm;
wherein the control system is configured to control the robotic arm such that the robotic arm is able to perform a task.